

To: Burgess, Michele[Burgess.Michele@epa.gov]; Serda, Sophia[Serda.Sophia@epa.gov]
Cc: Maier, Brent[Maier.Brent@epa.gov]
From: Meer, Daniel
Sent: Fri 4/8/2016 7:34:03 PM
Subject: RE: Speciation of Lead

Great thanks.

Daniel A. Meer, Assistant Director

Superfund Division

Emergency Response, Preparedness and Prevention Branch

415.972.3132 (O)

415.971.6792 (C)

From: Burgess, Michele
Sent: Friday, April 08, 2016 12:29 PM
To: Meer, Daniel; Serda, Sophia
Subject: RE: Speciation of Lead

Yep! Mike and I have met with them on two occasions and they sent a crew to the Philly conference.

Michele Burgess, PhD

Office of Land and Emergency Management

Office of Superfund Remediation & Technology Innovation

Science Policy Branch

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1200 Pennsylvania Ave., NW

MC 5204P

Washington, DC 20460

From: Meer, Daniel

Sent: Friday, April 08, 2016 3:26 PM

To: Burgess, Michele <Burgess.Michele@epa.gov>; Serda, Sophia <Serda.Sophia@epa.gov>

Subject: RE: Speciation of Lead

Thanks Michele

Is it fair to say that we are working with DTSC on the Exide site to see if we can answer this attribution question?

Daniel A. Meer, Assistant Director

Superfund Division

Emergency Response, Preparedness and Prevention Branch

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From: Burgess, Michele

Sent: Friday, April 08, 2016 11:42 AM

To: Serda, Sophia; Meer, Daniel

Subject: RE: Speciation of Lead

Hi Dan

Sophia is correct and we have been working with DTSC with regards to looking at attribution at

sites where there could be multiple sources in the environment. We have this problem at a number of removal sites where they reside in heavily industrial cities. I believe they attended the Urban Lead Workshop in Philadelphia last Fall. I have attached the meeting summary. At some point, it will be in CLU-IN.

Kirk Scheckel with ORD does some work in this area.

Michele Burgess, PhD

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From: Serda, Sophia

Sent: Friday, April 08, 2016 2:01 PM

To: Meer, Daniel <Meer.Daniel@epa.gov>

Cc: Burgess, Michele <Burgess.Michele@epa.gov>

Subject: RE: Speciation of Lead

Dan,

I understand for this type of analysis to work you have a distinct lead isotopic signature from the source. The main reason lead isotopes do not work is when the lead isotopic composition of the source is similar to background. All this I learned from my participation on the Lead TRW.

I am cc ing, Michelle Burgess, the Co-chair of the Lead TRW workgroup and she may have

additional information.

Thanks, Sophia

Sophia Serda, MS, PhD

Toxicologist || EPA || Region 9 || **Superfund** || Community Involvement & Technical Support Branch

415-972-3057

Please be advised I currently have limited access to email when I am not in the office (e.g., on travel), therefore please be patient with any communication delays.

From: Meer, Daniel

Sent: Friday, April 08, 2016 10:28 AM

To: Serda, Sophia <Serda.Sophia@epa.gov>

Subject: Speciation of Lead

Sophia – do you know or do you know who we could ask, about whether it is possible to speciate lead in soil to determine source? This question has come up at the Exide site in Vernon, CA which is a DTSC lead but where we are being asked by elected officials about the clean up and source attribution.

The question is, are there analyses that could differentiate say the lead from a smelter or the lead from lead based paint, once it is mixed in soil? Is there an isotope type analysis that could give information about attribution to one source or another?

Thanks, Dan

Daniel A. Meer, Assistant Director

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